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● PRINTER RUSH ●

(PTO ASSISTANCE)

Application : 09/394,264 Examiner : Winkler GAU : 1648

From: DR Location: IDC FMF FDC Date: 12/12/05

Tracking #: Epm 09/394,264 Week Date: 8/18/2005

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449		<input type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS		<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM		<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW		<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW		<input type="checkbox"/> Other
<input checked="" type="checkbox"/> DRW	<u>9/10/1999</u>	
<input type="checkbox"/> OATH		
<input type="checkbox"/> 312		
<input type="checkbox"/> SPEC		

[RUSH] MESSAGE: *Attn: Chief Draftsperson:
figures 1 and 7 - missing data and serial no. stamp on figure
label, please provide clearer copy of formal drawings set.*

Thank you.

[XRUSH] RESPONSE:

Dwg corrected

INITIALS: WJS

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

FIGURE 1

Human Coch-5B2 cDNA Sequence

1 GCACTCGGGC GCAGCCGGT GGATCTCGAG CAGGTGTGAG
CAGCCTATCA GTCACCATGT CCGCAGCCTG GATCCCGGCT CTCGGCCTCG
GTGTGTGTCT GCTGCTGCTG CCGGGGCCCG CGGGCAGCGA GGGAGCCGCT
CCCATTGCTA TCACATGTTT TACCAGAGGC TTGGACATCA GGAAAGAGAA
AGCAGATGTC CTCTGCCAG GGGGCTGCC CTTGAGGAA TTCTCTGTGT
ATGGGAACAT AGTATATGCT TCTGTATCGA GCATATGTGG GGCTGCTGTC
CACAGGGAG TAATCAGCAA CTCAGGGGA CCTGTACGAG TCTATAGCCT
ACCTGGTCGA GAAAACATT CCTCAGTAGA TGCCAATGGC ATCCAGTCTC
AAATGCTTTC TAGATGGTCT GCTTCTTCA CAGTAACCAA AGGCAAAAGT
AGTACACAGG AGGCCACAGG ACAAGCAGTG TCCACAGCAC ATCCACCAAC
AGGTAAACGA CTAAAGAAAA CACCCGAGAA GAAAACCTGGC AATAAAGATT
GTAAAGCAGA CATTGCAATT CTGATTGATG GAAGCTTAA TATTGGCAG
CGCCGATTAA ATTTACAGAA GAATTTGTT GGAAAAGTGG CTCTAATGTT
GGGAATTGGA ACAGAAGGAC CACATGTGGG CCTTGTCAA GCCAGTGAAC
ATCCCAAAAT AGAATTTCAC TTGAAAAACT TTACATCAGC CAAAGATGTT
TTGTTTGCCTA TAAAGGAAGT AGGTTTCAGA GGGGTAATT CCAATACAGG
AAAAGCCTTG AAGCATACTG CTCAGAAATT CTTCACGGTA GATGCTGGAG
TAAGAAAAGG GATCCCCAAA GTGGTGGTGG TATTATTGA TGGTGGCCT
TCTGATGACA TCGAGGAAGC AGGCATTGTG GCCAGAGAGT TTGGTGTCAA
TGTATTATA GTTCTGTGG CCAAGCCTAT CCCTGAAGAA CTGGGATGG
TTCAGGATGT CACATTGTT GACAAGGCTG TCTGTCGGAA TAATGGCTTC
TTCTCTTACCA ACATGCCAA CTGGTTGGC ACCACAAAAT ACGTAAAGCC
TCTGGTACAG AAGCTGTGCA CTCATGAACA AATGATGFGC AGCAAGACCT
GTTATAACTC AGTGAACATT GCCTTCTAA TTGATGGCTC CAGCAGTGT
GGAGATAGCA ATTTCCGCCT CATGCTTGAAT TTGTTTCCA ACATAGCCAA
GACTTTGAA ATCTCGACA TTGGTGCCTA GATAGCTGCT GTACAGTTA
CTTATGATCA GCGCACGGAG TTCAGTTCA CTGACTATAG CACCAAAGAG
AATGTCCTAG CTGTATCAG AAACATCCGC TATATGAGTG GTGGAACAGC
TACTGGTGTGCCATTCTCAGTGTGAA TTGTCACAGA TGGCAGTCC
GGGAGAGCCC CAACAAGAAC TTCTAGTAA TTGTCACAGA TGGCAGTCC
TATGATGATG TCCAAGGCCCG TGCAAGTGTGCT GCACATGATG CAGGAATCAC
TATCTTCTCT GTGGTGTGG CTGGCACC TCTGGATGAC CTGAAAGATA
TGGCTTCTAA ACCGAAGGAG TCTCATGCTT TCTTCACAAG AGAGTTACAA
GGATTAGAAC CAATTGTTTC TGATGTCATC AGAGGCATT GTAGAGATT
CTTAGAATCC CAGCAATAAT GTAACATT TGACAACTGA AAGAAAAAGT
ACAAGGGAT CCAGTGTGTA AATTGTTAC TCTAATAACT GAAATGCTT
AGCATACTAG AATCAGATAC AAAACTATTA AGTATGTCAA CAGCCATTAA
GGCAAATAAG CACTCCTTA AAGCCGCTGC CTTCTGGTTA CAATTACAG
TGTACTTGT TAAAAACACT GCTGAGGCTT CATAATCATG GCTCTTAGAA
ACTCAGGAAA GAGGAGATAA TGTTGATTAA AACCTTAAGA GTTCTAACCA
TGCCTACTAA ATGTACAGAT ATGCAAATTC CATAGCTCAA TAAAAGAAC

FIGURE 1 (CONTINUED)

TGATACTTAG ACCAAAAGCA ACATTCGTTCTCAACCATTCTGTATTGAT
TATATAAGCA AAATGAAAAG AGAAAACCTAAATGAACACAGCTCTTAACA
TGGTCAGGT ACACATATTCTGACCCAAGTGGATATTTC TTAAAACCAA
TCAATAATAGCTAGCTATTA CTGCAGACTATAAAATCTGG ATATAGAAAG
GAGACCTGTA TCAAACGTCTTTGAGTGTGTTTCATAACAACTTATGA
CTAAAAATATCACACTGAAT AAGAGAGCAG GATTGCCAGG TATTTTCTA
TTTCTCTCCTTAATTTATA TGTATATAGA TATATTGGCTTATATTCTA
AGTCACCTAA GTACTAAAA GTTAAGTTGG TAAAGTATTACTGACTGCT
TATAAACATT TAAAGACAAA GACATTTCAA ATAACACTGCAG AAAAAATATT
GTAGTTGAA TATTAAGCA ATAAAACGTCTGAGTTA TTGT

Human Coch-5B2 Amino Acid Sequence

1 MSAAWIPALG LGVCLLLLPG PAGSEGAAPAIITCFTRGLDIRKEKADVLCPGGCPL
PGGLEEFS VYGNIVYASV SSICGAAVHR GVISNSGGPV RVYSLPGREN
YSSVDANGIQ SQMLSRWSAS FTVTKGKSST QEATGQAVST AHPPTGKRLK
KTPEKKTGNK DCKADIAFLIDGSFNIGQRR FNLQKNFVGK VALMLGIGTE
GPHVGLVQAS EHPKIEFYLK NFTSAKDVLFAIKEVGFRGG NSNTGKALKH
TAQKFFTVDAGVRKGIPKVV VVFIDGWPSD DIEEAGIVAR EFGVNVFIVS
VAKPIPEELG MVQDVTFVDKAVCRNNGFFSYHMPNWFGTT KYVKPLVQKL
CTHEQMMCSK TCYNSVNIAFLIDGSSSVGD SNFRLMLEFV SNIAKTFEIS
DIGAKIAAVQFTYDQRTEFSFTDYSTKENV LAVIRNIRYMSGGTATGDAI
SFTVRNVFGPIRESPNKNFLVIVTDGQSYDDVQGPAAAHDAGITIFSVG
VAWAPLDDLKDMASKPKESH AFFTREFTGL EPIVSDVIRGICRDFLESQQ

FIGURE 2

Mouse Coch-5B2 cDNA Sequence

1 CGGAGCCGCG CTTGCCGCAC TCGGGTAG CCGGGCGGAT
CCCACGCAGG TCCACGGAGA TCCTCGCCAT GCCCTCGTCC AGGATCCCTG
CTCTCTGCCT CGGTGCGTGG CTGCTGCTGC TGCTGCTGCC CCGGTTCGCG
CGCGCCGAGG GAGCGGTTCC CATTCTGTC ACCTGCTTTA CCAGAGGCCT
GGATATCCGA AAAGAGAAAG CAGATGTTCT CTGCCAGGA GGCTGCTCTC
TTGAGGAATT CTCTGTGTTT GGGAACATAG TGTATGCGTC AGTGTCCAGC
ATCTGCGCG CTGCTGTCGA TAGGGGAGTG ATTGGCACCT CAGGGGGACC
TGTGCGTGTACAGCCTTC CTGGTCGAGA GAACTACTCC TCGGTAGATG
CCAACGGCAT CCAGTCTCAG ATGCTTCCC GATGGTCCGC GTCCCTCGCT
GTGACCAAAG GCAAAAGCAG TACCCAGGAA GCCACAGGAC GGGCAGTGT
CACAGCCCAC CCACCTTCAG GTAAAAGACT AAAGAAGACA CCAGAGAAGA
AGACTGGCAA CAAAGACTGT AAGGCAGACA TTGCATTTCT CATTGATGGA
AGCTTCAATA TTGGGCAGCG CCGATTTAAT TTGCAGAAGA ATTTTGTGG
GAAAGTGGCA CTAATGTTGG GAATTGGAAC AGAAGGACCA CACGTGGTGC
TCGTTCAAGC CAGTGAACAC CCCAAATAG AATTAACTT GAAAAACTT
ACTTCAGCCA AAGATGTCTT GTTGCATA AAAGAAGTAG GTTCCGAGG
GGGTAACTCC AACACAGGAA AAGCCTGAA GCACACTGCT CAGAAATTCT
TTACAGCAGA CACTGGTGTG AGAAAAGGAA TACCAAAAGT GGTGGTAGTG
TTTATTGATG GTTGGCCCTC TGATGACATT GAGGAAGCAG GCATTGTGGC
CAGAGAGTT GGTGTCAATG TATTATAGT TTCTGTGGCC AAGCCCATT
CTGAAGAACT GGGGATGGTT CAAGATGTTG CATTGTTGA CAAGGCTGTG
TGTGCGAATA ATGGCTTCTT CTCTTATCAC ATGCCAACT GGTTGGCAC
TACAAAATAT GTGAAGCCTC TGGTGCAGAA GCTCTGTACG CACGAACAGA
TGATGTGCAG CAAAACCTGC TACAACCTCAG TGAACATTGC CTTCTGATT
GACGGCTCCA GCAGTGTGG AGATAGCAAT TTCCGCCTCA TGCTAGAATT
TGTGTTCTAAC ATAGCGAAGA CATTGAAAT CTCAGACATT GGAGCCAAGA
TAGCTGCTGT ACAGTTCACT TATGACCAGC GCACCGAGTT CAGTTCACT
GACTATAATA CCAAAGAGAA CGTCCTAGCT GTCCTAGCGA ACATCCGCTA
CATGAGTGGT GGCACAGCTA CTGGTGTGTC CATCGCCTTT ACTGTTAGAA
ATGTATTGG TCCCATAAGG GACAGCCCCA ACAAAAACCTT CCTGGTTATT
GTCACAGATG GGCAGTCCTA TGATGATGTC CGAGGCCCTG CTGCAGCTGC
CCATGATGCA GGTATCACCA TCTTCTCTGT TGGTGTGGCT TGGGCACCGC
TGGATGACCT GAGAGATATG GCCTCTAAAC CCAAAGAGTC ACACGCTTTC
TTTACCCAGAG AGTTCACAGG GTTAGAACCA ATTGTCTCTG ACGTCATCAG
AGGCATTGT AGAGACTTCT TAGAATCCCA GCAATAACCG ATACTCTGAC
AACTCAAGGA ATACGTGCAA GGGGATCTAA TGTGCAAATT ATATTCTCAA
TGCCTATGTA ACTTTATAGC TTACCAAGTGT CAAAAAAATGC GTCCACAGCT
GTTTAAAGCA AATGAATATT CATGTGATGTC TCACAATTAA GATTGGCCGA
GACTTGATAA TCAGGCCCTT AGAAACTCAG GAAAGAAGAG TTGTCATGGA
TTAACATTGG GAGTTCAAAT ATGCATTCAA GTGGATAGGT AAGCTACACA
GCTCAATAAA AGAACCTGGC GCTTACACAC AAAGCACTGT TCCCTCTTTA
ATCACTCTGC ATTGACCAGTCAAGGAAAAG AGAACAGCTT TTAAACACAG

FIGURE 2 (CONTINUED)

ATCAAGTATA CATACTTGA CCCATGTGGA TGTTTCTTA AAACCAGCCA
AGAACAGACA GCTGTTATTA TGTGCACTAG CCATAACTAC ACATTATATG
GAATCATATA TCAAGCTTCT TTTGTAGTGT GTTTCATAA CTTGATGGCT
GAAATACAC ACTGAGTAAA GGTAGGATTG CCTGGTATTT TTCTATTAT
ATCCTTAATT TTATGTGTAT AGACAGGCAT GTACTCCGAG GACTAAGAAA
ATGTTTAAGC AGATAACTTT TTTTTTGA AAAAAAAGAT GTGTCAAGTA
TTGTAACCGA AAAAAACAC AGCTTAATAG CTTGGCTGTC AGCAATAAAA
CTGCTAGTGA CTAAG

Mouse Coch-5B2 Amino Acid Sequence

1 MPSSRIPALC LGAWLLLLL PRFARAEGAV PIPVTCFTRG LDIRKEKADV
LCPGGCSLEE FSVFGNIVYA SVSSICGAAC HRGVIGTSGG PVRVYSLPGR
ENYSSVDANG IGSQMLSRWS ASFAVTKGKS STQEATGRAV STAHPGKRS
LKKTPEKKTG NKDCKADIAF LIDGSFNIGQ RRFNLQKNFV GKVALMLGIG
TEGPHVGLVQ ASEHPKIEFY LKNFTSAKDV LFAIKEVGFR GGNSNTGKAL
KHTAQKFFTA DTGVRKGIPK VVVVFIDGWP SDDIEEAGIV AREFGVNVFI
VSVAKPIEE LGMVQDVAFV DKA VCRNNGF FSYHMPNWFG TTKYVKPLVQ
KLCTHEQMMC SKTCYNSVNI AFLIDGSSSV GDSNFRMLLE FVSNIAKTFE
ISDIGAKIAA VQFTYDQRTE FSFTDYNTKE NVLAVLANIR YMSGGTATGD
AIAFTVRNVF GPIRDSPNKN FLVIVTDGQS YDDVRGPAAA AHDAGITIFS
VGVAWAPLDD LRDMASKPKE SHAFFTREFT GLEPIVSDVI RGICRDFLES
QQ*

FIGURE 3

1 MSAAWIPALGLG VCLLLLPGPAGSEGAAPIAITCFTRGLDIRKEKADV 48
1 .PSSR....C..AWLL....RF.RA...V..PV..... 50
49 LCPGGCPLLEFSVYGNIVYASVSSICGAAVHRGVISSGGPVRVYSLPGR 98
51S.....F.....GT..... 100
99 ENYSSVDANGIQSQMLSRWSASETVTKGKSSTQEATGQAVSTAHPPTGKR 148
101A.....R.....S... 150
149 LKKTPEKKTGNKDCKADIAFLIDGSFNIGQRRFNLQKNFVGKVALMLGIG 198
151 200
199 TEGPHVGLVQASEHPKIEFYLNFTSAKDVLFAIKEVGFRGGSNTGKAL 248
201 250
249 KHTAQKFFTVDAGVRKGIPKVVVVFIDGWPSSDIEEAGIVAREFGVNIFI 298
251A.T..... 300
299 VSVAKPIPEELGMVQDVTFVDKAVCRNNNGFFSYHMPNWFGTTKYVKPLVQ 348
301A..... 350
349 KLCTHEQMMCSKTCYNSVNIAFLIDGSSSGDSNFRMLEFVSNIAKTFE 398
351 400
399 ISDIGAKIAAVQFTYDQRTEFSFTDYSTKENVLAVIRNIRYMSGGTATGD 448
401N.....LA..... 450
449 AISFTVRNVFGPIRESPNKNFLVIVTDGQSYDDVQGPAAAHDAGITIFS 498
451 ..A.....D.....R..... 500
499 VGVAWAPLDDLKDMASKPKESHAFFTREFTGLEPIVSDVIRGICRDFLES 548
501R..... 550
549 QQ* 550
551 ... 552

FIGURE 4

COCH-5B2	Val1	DIAFLI D ₁ G ₂ S ₃ F ₄ N ₅ I ₆ Q ₇ R ₈ R ₉ F ₁₀ N ₁₁ L ₁₂ Q ₁₃ K ₁₄ N ₁₅ F ₁₆ V ₁₇ G ₁₈ K ₁₉ V ₂₀ A ₂₁ S ₂₂ E ₂₃ H ₂₄ P ₂₅ K ₂₆
COCH-5B2	Val2	NIAFLI D ₁ G ₂ S ₃ F ₄ N ₅ I ₆ Q ₇ R ₈ R ₉ F ₁₀ N ₁₁ L ₁₂ Q ₁₃ K ₁₄ N ₁₅ F ₁₆ V ₁₇ G ₁₈ K ₁₉ V ₂₀ A ₂₁ S ₂₂ E ₂₃ H ₂₄ P ₂₅ K ₂₆
COL12A1	Val1	DIVFLV D ₁ G ₂ S ₃ F ₄ N ₅ I ₆ Q ₇ R ₈ R ₉ F ₁₀ N ₁₁ L ₁₂ Q ₁₃ K ₁₄ N ₁₅ F ₁₆ V ₁₇ G ₁₈ K ₁₉ V ₂₀ A ₂₁ S ₂₂ E ₂₃ H ₂₄ P ₂₅ K ₂₆
COL12A1	Val2	DIVFLI D ₁ G ₂ S ₃ F ₄ N ₅ I ₆ Q ₇ R ₈ R ₉ F ₁₀ N ₁₁ L ₁₂ Q ₁₃ K ₁₄ N ₁₅ F ₁₆ V ₁₇ G ₁₈ K ₁₉ V ₂₀ A ₂₁ S ₂₂ E ₂₃ H ₂₄ P ₂₅ K ₂₆
CMP	Al1	DIVI D ₁ G ₂ S ₃ F ₄ N ₅ I ₆ Q ₇ R ₈ R ₉ F ₁₀ N ₁₁ L ₁₂ Q ₁₃ K ₁₄ N ₁₅ F ₁₆ V ₁₇ G ₁₈ K ₁₉ V ₂₀ A ₂₁ S ₂₂ E ₂₃ H ₂₄ P ₂₅ K ₂₆
WIFP	A3	DVI D ₁ G ₂ S ₃ F ₄ N ₅ I ₆ Q ₇ R ₈ R ₉ F ₁₀ N ₁₁ L ₁₂ Q ₁₃ K ₁₄ N ₁₅ F ₁₆ V ₁₇ G ₁₈ K ₁₉ V ₂₀ A ₂₁ S ₂₂ E ₂₃ H ₂₄ P ₂₅ K ₂₆
COCH-5B2	Val1	I2F YLK NPTSAKDVLF A1KEV GFRGGNSNTGKALKHTAQKPFITVDAGVVK
COCH-5B2	Val2	T2F SPTDYSTKEVNVLAVI RNIYHMSGGTATGDA1SPTIVKNNVFGPIREESPN
COL12A1	Val1	T2F PNLQYQDRLAIAKKIPYKCCNTHTDA1DYLVKNTFTEASGARYV
COL12A1	Val2	T2F PNLQYQDRLAIAKKIPYKCCNTHTDA1DYLVKNTFTEASGARYV
CMP	Al1	OEFPLGRPHTKDDIKAVRNMSSMEKGTMTGAAKYLIDONSFIVSSCARP
WIFP	A3	IDVPWNVVPPEKAHLSTIVDVMQRM2GGPSQIGDALCEAVRYLTSEMHGARP
COCH-5B2	Val1	G1PKVVVFIIDGWPSSDDIEEAGIVAREFGVNVFIIVSVAKP1PEEL
COCH-5B2	Val2	-KNFLVIVTDGOSYDQOQDVEI1PARELNVGVEVFSLECGIKAAADAKELKQIA5
COL12A1	Val1	GFPKVAI1PARELNVGVEVFSLECGIKAAADAKELKQIA5
COL12A1	Val2	GAKOYGV1PARELNVGVEVFSLECGIKAAADAKELKQIA5
CMP	Al1	GASKA1PARELNVGVEVFSLECGIKAAADAKELKQIA5
WIFP	A3	GASKA1PARELNVGVEVFSLECGIKAAADAKELKQIA5

FIGURE 5



FIGURE 6

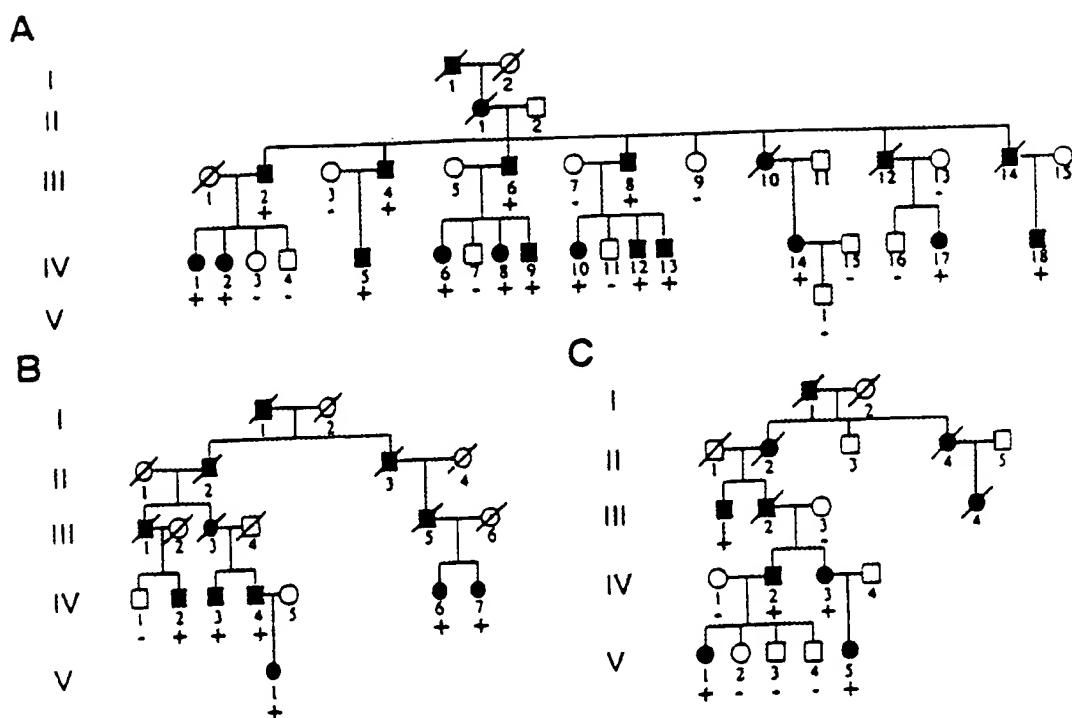


FIGURE 7

